

AMENDMENT TO THE CLAIMS

Applicant selectively amends the claims as follows:

Listing of Claims:

1-13. (Cancel).

14. (Original) A telecommunication system having high availability comprising:

a media gateway for converting between POTS voice traffic and IP voice traffic, the media gateway including a processor having a system management mode that executes code to monitor a state of the media gateway;

a signaling gateway for converting between POTS signaling traffic and IP signaling traffic, the signaling gateway including a processor having a system management mode that executes code to monitor a state of the signaling gateway;

a gateway controller coupled to the signaling gateway for receiving signaling messages therefrom and determining IP routing addresses corresponding to telephone numbers, the gateway controller including a processor having a system management mode that executes code to monitor a state of the gateway controller; and

a high availability system controller coupled to all of the media gateway, the signaling gateway and the gateway controller, the high availability system controller having policy and procedure code configured to execute when triggered by at least one of the media gateway, the signaling gateway and the gateway controller in response to at least one event.

1 15. (Original) The telecommunication system of claim 14, wherein, if a malfunction occurs, the
2 high availability system controller is alerted from the state information provided by one or more
3 components, and the policy and procedure code executes a diagnostic routine to determine a
4 cause of the malfunction and initiates a power-down procedure for all malfunctioning
5 components.

1 16. (Original) The telecommunication system of claim 15, wherein the policy and procedure
2 code includes routines to activate replacement components to cover for malfunctioning
3 components.

1 17. (Original) The telecommunication system of claim 16, wherein the policy and procedure
2 code includes routines for rerouting voice and signaling traffic to maintain quality of service.

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1 18-20. (Cancel).

1 21. (New) A system comprising:
2 a system controller; and
3 at least one microprocessor coupled to the system controller, the at least one
4 microprocessor including a system management mode operating at a firmware level independent
5 of an operating system, the system management mode to save state information and based on a
6 system management interrupt send a message to the system controller, the message to include the
7 saved state information, wherein the system controller is to transmit back instructions based on
8 stored policies.

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1 22. (New) A system according to claim 21, wherein the at least one microprocessor comprises:
2 a first microprocessor located in a media gateway;
3 a second microprocessor located in a gateway controller; and
4 a third microprocessor located in a signaling gateway, wherein the media gateway, the
5 gateway controller, and the signaling gateway comprise a voice-over Internet Protocol (VoIP)
6 telecommunications system.

1 23. (New) A system according to claim 22, wherein the system management interrupt is based
2 on a detected malfunction in at least one selected from the following group of: the media
3 gateway, the gateway controller and the signaling gateway.

1 24. (New) A system according to claim 21, wherein the at least one microprocessor resides on at
2 least one computer card in a rack computer system including a plurality of computer cards.

1 25. (New) A system according to claim 24, wherein the system management interrupt is based
2 on a hot swap of a computer card from among the plurality of computer cards.